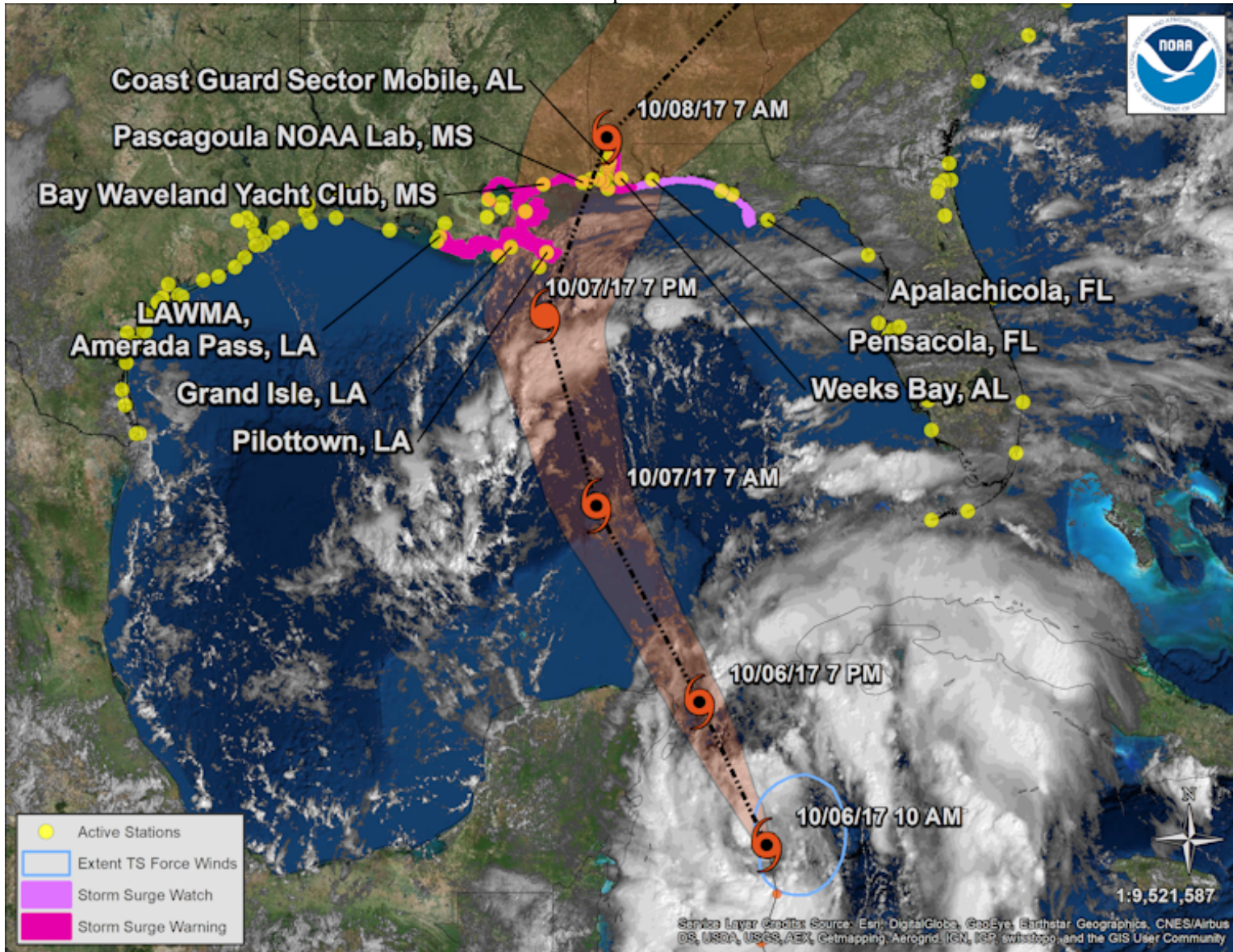




Tropical Storm NATE QuickLook
Posted: 11:00 CDT 10/06/2017

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 10/06/2017 11:00 CDT, water levels along the Gulf Coast from Amerada Pass, LA to Apalachicola, FL currently range between 0.6 and 1.5 ft above normal tide levels. Winds are following the normal diurnal cycle and range between 5 and 15 knots. Barometric pressure is gradually falling across the region.

Water Level and Meteorological plots available below are updated automatically. A line denoting Mean Higher High Water (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

For additional data, please see the Center for Operational Oceanographic Products & Services website. For more information or archived products and reports, please see the Storm QuickLook Homepage.

Analyst: AC

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

Tropical Storm Nate Advisory Number 9

NWS National Hurricane Center Miami FL

1000 AM CDT Fri Oct 06 2017

...NATE STRENGTHENING OVER THE NORTHWESTERN CARIBBEAN SEA...

...HURRICANE AND STORM SURGE WARNINGS ISSUED FOR THE NORTHERN GULF COAST...

SUMMARY OF 1000 AM CDT....INFORMATION

LOCATION...18.7N 85.0W

ABOUT 175 MI... SE OF COZUMEL MEXICO

ABOUT 165 MI... NNE OF ISLA GUANAJA HONDURAS

MAXIMUM SUSTAINED WINDS...50 MPH

PRESENT MOVEMENT...NNW OR 340 DEGREES AT 21 MPH

MINIMUM CENTRAL PRESSURE...996 MB

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

A Hurricane Warning is now in effect from Grand Isle Louisiana to the Alabama/Florida border.

A Storm Surge Warning is now in effect from Morgan City Louisiana to the Alabama/Florida border, and for the northern and western shores of Lake Pontchartrain.

A Tropical Storm Warning is now in effect for metropolitan New Orleans, Lake Pontchartrain and Lake Maurepas, and from west of Grand Isle to Morgan City Louisiana.

A Hurricane Watch is now in effect east of the Alabama/Florida border to the Okaloosa/Walton County Line.

A Storm Surge Watch is now in effect east of the Alabama/Florida border to Indian Pass, Florida.

A Tropical Storm Watch is now in effect east of the Okaloosa/Walton County Line to Indian Pass, Florida.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Warning is in effect for...

- * Grand Isle Louisiana to the Alabama/Florida border

A Storm Surge Warning is in effect for...

- * Morgan City Louisiana to the Alabama/Florida border

- * Northern and western shores of Lake Pontchartrain

A Tropical Storm Warning is in effect for...

- * Metropolitan New Orleans

- * Lake Pontchartrain and Lake Maurepas

- * West of Grand Isle to Morgan City Louisiana

A Hurricane Watch is in effect for...

- * Metropolitan New Orleans

- * Lake Pontchartrain and Lake Maurepas

- * East of the Alabama/Florida border to the Okaloosa/Walton County Line

- * West of Grand Isle to Morgan City Louisiana

A Storm Surge Watch is in effect for...

- * East of the Alabama/Florida border to Indian Pass Florida

A Tropical Storm Watch is in effect for...

- * East of the Okaloosa/Walton County Line to Indian Pass Florida

- * West of Morgan City to Intracoastal City Louisiana

A Hurricane Warning means that hurricane conditions are expected somewhere within the warning area. A warning is typically issued 36 hours before the anticipated first occurrence of tropical-storm-force winds, conditions that make outside preparations difficult or dangerous. Preparations to protect life and property should be rushed to completion.

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area.

A Storm Surge Watch means there is a possibility of life-threatening inundation, from rising water moving inland from the coastline, in the indicated locations during the next 48 hours. For a depiction of areas at risk, please see the National Weather Service Storm Surge Watch/Warning Graphic, available at hurricanes.gov.

A Hurricane Watch means that hurricane conditions are possible within the watch area.

A Tropical Storm Watch means that tropical storm conditions are possible within the watch area, generally within 48 hours.

Interests elsewhere in western Cuba, the Yucatan Peninsula, and the northern coast of the Gulf of Mexico should monitor the progress of Nate.

For storm information specific to your area in the United States, including possible inland watches and warnings, please monitor products issued by your local National Weather Service forecast office. For storm information specific to your area outside the United States, please monitor products issued by your national meteorological service.

DISCUSSION AND 48-HOUR OUTLOOK

At 1000 AM CDT, the center of Tropical Storm Nate was located near latitude 18.7 North, longitude 85.0 West. Nate is moving toward the north-northwest near 21 mph and this motion is expected to continue through Saturday, with a turn toward the north and northeast expected Saturday night and Sunday. On the forecast track, the center of Nate will move across the northwestern Caribbean Sea today, and move near or over the northeastern coast of the Yucatan peninsula this evening. Nate will then move into the southern Gulf of Mexico tonight, approach the northern Gulf coast Saturday, and then move near or over the northern Gulf coast Saturday night or Sunday.

Reports from Air Force Reserve and NOAA Hurricane Hunter aircraft indicate that maximum sustained winds are now near 50 mph with higher gusts. Additional strengthening is forecast during the next couple of days, and Nate is expected to become a hurricane by the time it reaches the northern Gulf of Mexico.

Tropical-storm-force winds extend outward up to 115 miles mainly to the east of the center.

The minimum central pressure estimated from the Hurricane Hunter data is 996 mb.

HAZARDS AFFECTING LAND

RAINFALL: Nate is expected to produce the following rain accumulations through this weekend:

U.S. Central Gulf Coast states, eastern Tennessee Valley and southern Appalachians: 3 to 6 inches, max 12 inches

Heavy rainfall will occur over a wide area, including locations well away from the center along the Pacific coast of Central America. Rainfall across all of these areas may produce life-threatening flash floods and mudslides.

WIND: Hurricane conditions are possible within the hurricane watch area in Mexico by tonight, with tropical storm conditions expected by this evening. Tropical storm conditions are expected in the warning area in Cuba by tonight, and are possible in the watch area in Cuba tonight.

Along the northern Gulf Coast, hurricane conditions are expected in the hurricane warning area Saturday night, with tropical storm conditions expected by late Saturday. Tropical storm conditions are expected in the tropical storm warning area by Saturday night. Hurricane conditions are possible in the hurricane watch area Saturday night, and tropical storm conditions are possible in the tropical storm watch area Saturday night and Sunday.

STORM SURGE: In the United States, The combination of a dangerous storm surge and the tide will cause normally dry areas near the coast to be flooded by rising waters moving inland from the shoreline. The water is expected to reach the following heights above ground if the peak surge occurs at the time of high tide...

Morgan City, Louisiana to the Alabama/Florida border...4 to 7 ft

Alabama/Florida border to Indian Pass, Florida...2 to 4 ft

The deepest water will occur along the immediate coast near and to the east of the landfall location, where the surge will be accompanied by large and destructive waves. Surge-related flooding depends on the relative timing of the surge and the tidal cycle, and can vary greatly over short distances. For information specific to your area, please see products issued by your local National Weather Service forecast office.

SURF: Swells generated by Nate will affect land areas around the northwestern Caribbean during the next day or so. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

Next intermediate advisory at 100 PM CDT.

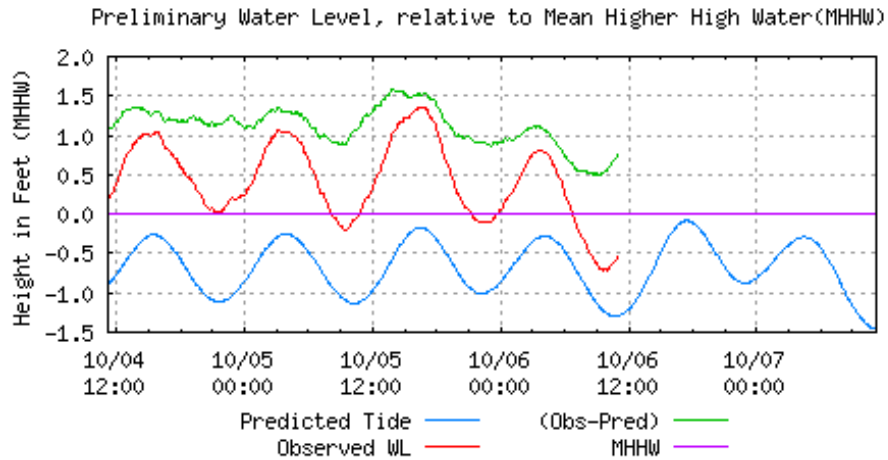
Next complete advisory at 400 PM CDT.

Forecaster Beven

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [LAWMA, Amerada Pass - Water Level](#), [LAWMA, Amerada Pass - Winds](#), [LAWMA, Amerada Pass - Barometric](#), [Grand Isle - Water Level](#), [Grand Isle - Winds](#), [Grand Isle - Barometric](#), [Pilottown - Water Level](#), [Pilottown - Winds](#), [Pilottown - Barometric](#), [Bay Waveland Yacht Club - Water Level](#), [Bay Waveland Yacht Club - Winds](#), [Bay Waveland Yacht Club - Barometric](#), [Pascagoula NOAA Lab - Water Level](#), [Coast Guard Sector Mobile - Water Level](#), [Coast Guard Sector Mobile - Winds](#), [Coast Guard Sector Mobile - Barometric](#), [Weeks Bay, Mobile Bay - Water Level](#), [Pensacola - Water Level](#), [Apalachicola - Water Level](#), [Apalachicola - Winds](#), [Apalachicola - Barometric](#)

NOAA/NOS/CO-OPS 8764227 LAWMA, Amerada Pass, LA



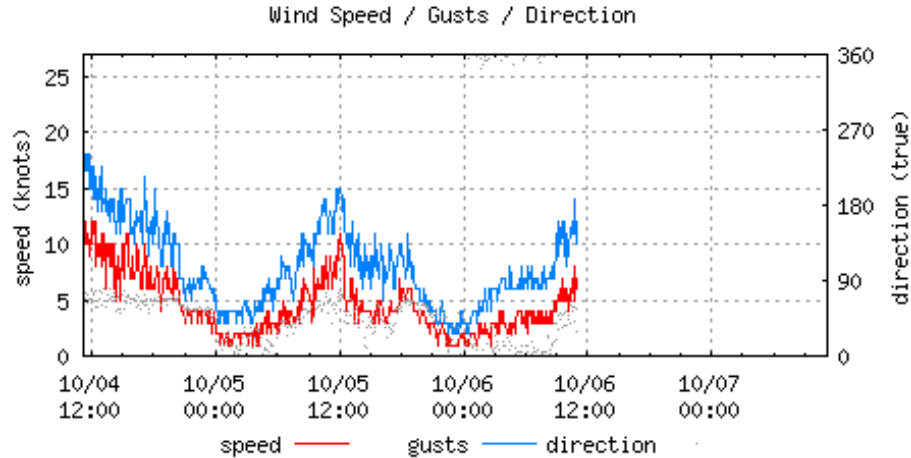
Last Observed Sample: 10/06/2017 11:06 (CDT). Data relative to MHHW

Observed: -0.50 ft. Predicted: -1.29 ft. Residual: 0.79 ft.

Historical Maximum Water Level: Sep 12 2008, 5.94 ft.

Next High Tide: 10/06/2017 17:26 (CDT), -0.09 ft.

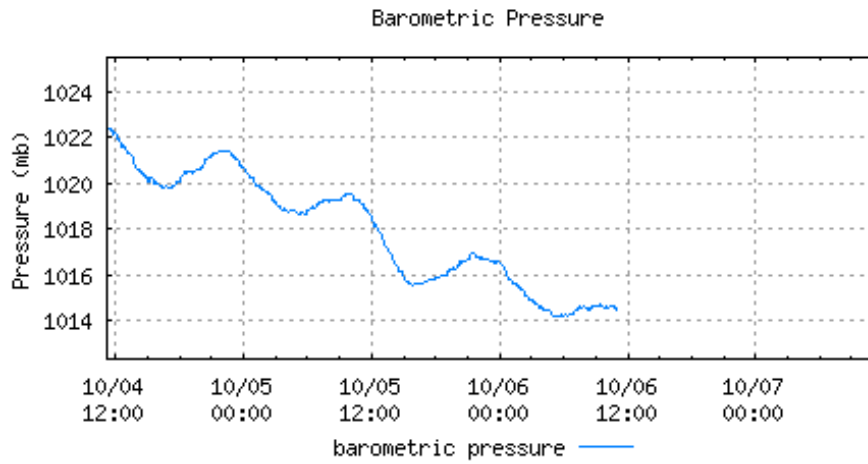
NOAA/NOS/CO-OPS 8764227 LAWMA, Amerada Pass, LA



Last Observed Sample: 10/06/2017 11:06 (CDT)

Wind Speed: 9 knots Gusts: 13 knots Direction: 67° T

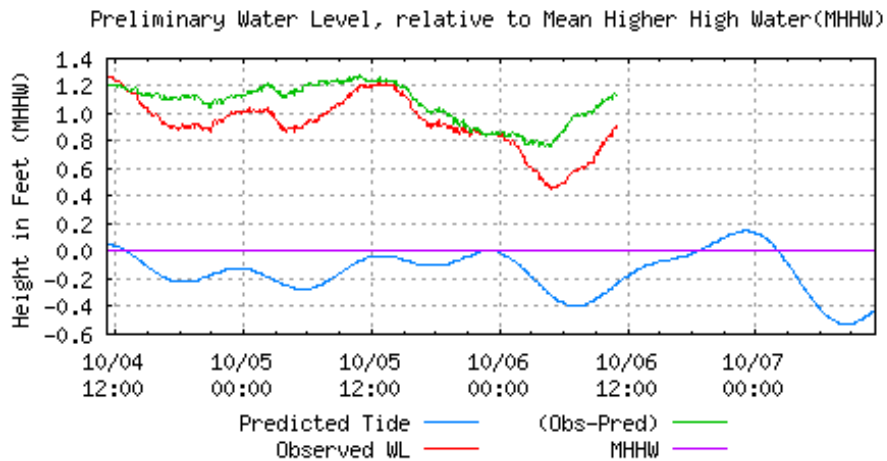
NOAA/NOS/CO-OPS 8764227 LAWMA, Amerada Pass, LA



Last Observed Sample: 10/06/2017 11:06 (CDT)

Barometric Pressure: 1014.3 mb

NOAA/NOS/CO-OPS 8761724 Grand Isle, LA



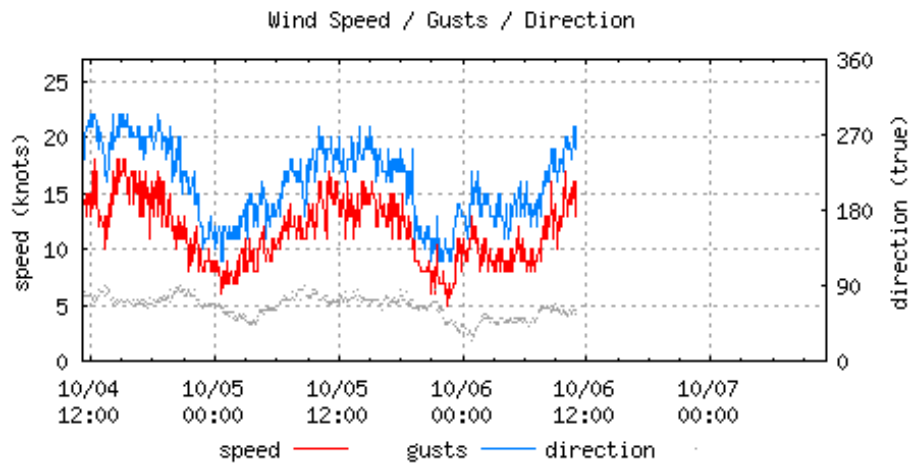
Last Observed Sample: 10/06/2017 11:06 (CDT). Data relative to MHHW

Observed: 0.93 ft. Predicted: -0.23 ft. Residual: 1.16 ft.

Historical Maximum Water Level: Aug 29 2012, 4.45 ft.

Next High Tide: 10/06/2017 23:06 (CDT), 0.15 ft.

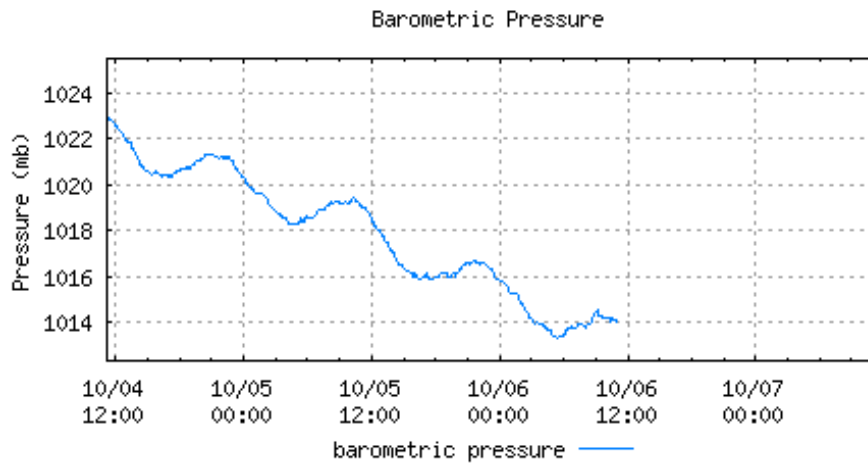
NOAA/NOS/CO-OPS 8761724 Grand Isle, LA



Last Observed Sample: 10/06/2017 11:06 (CDT)

Wind Speed: 16 knots Gusts: 19 knots Direction: 60° T

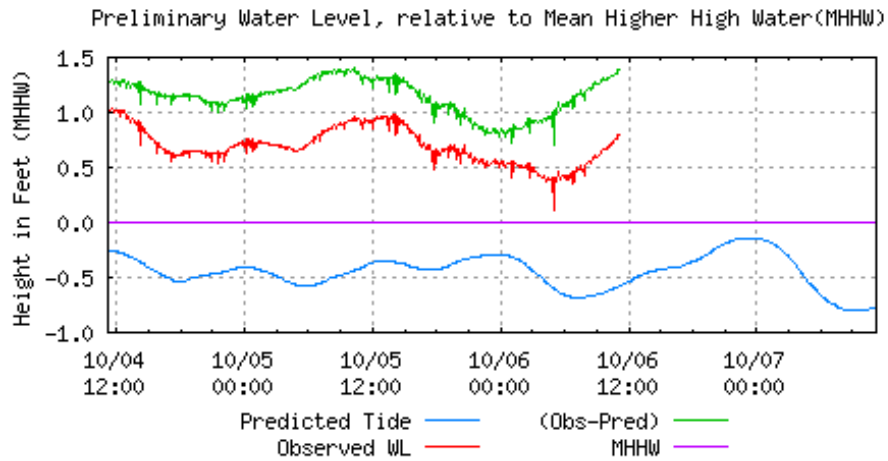
NOAA/NOS/CO-OPS 8761724 Grand Isle, LA



Last Observed Sample: 10/06/2017 11:06 (CDT)

Barometric Pressure: 1014.1 mb

NOAA/NOS/CO-OPS 8760721 Pilottown, LA



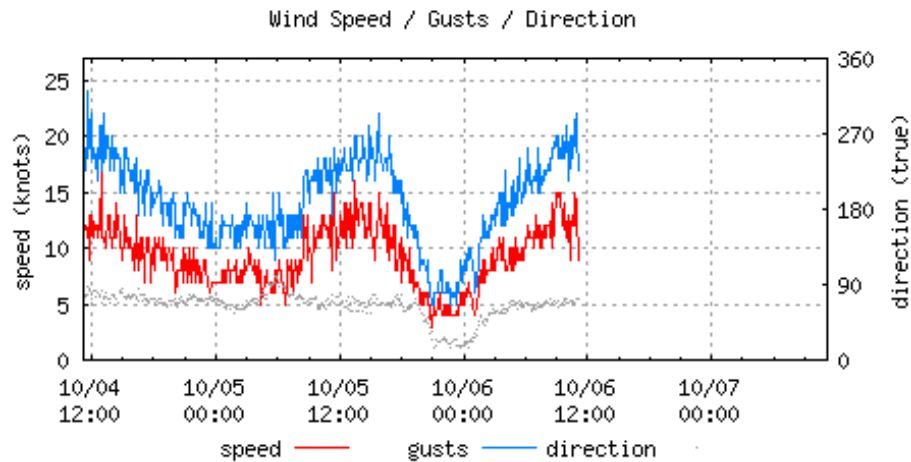
Last Observed Sample: 10/06/2017 11:06 (CDT). Data relative to MHHW

Observed: 0.80 ft. Predicted: -0.58 ft. Residual: 1.38 ft.

Historical Maximum Water Level: n/a

Next High Tide: 10/06/2017 23:17 (CDT), -0.14 ft.

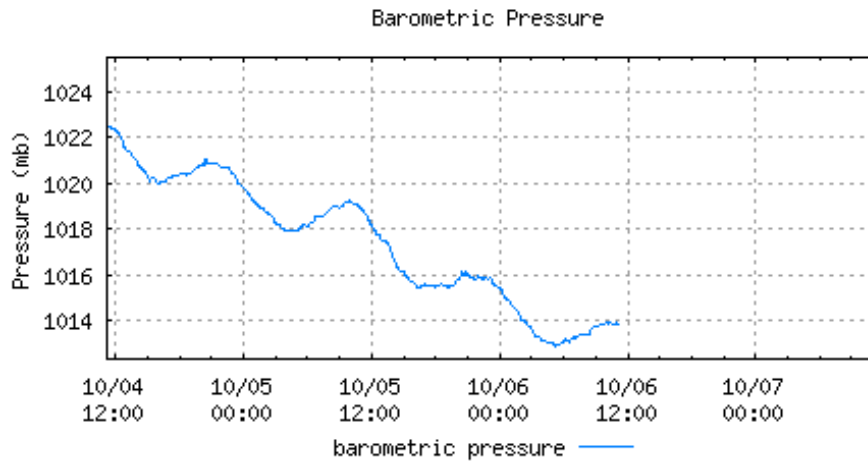
NOAA/NOS/CO-OPS 8760721 Pilottown, LA



Last Observed Sample: 10/06/2017 11:06 (CDT)

Wind Speed: 9 knots Gusts: 17 knots Direction: 72° T

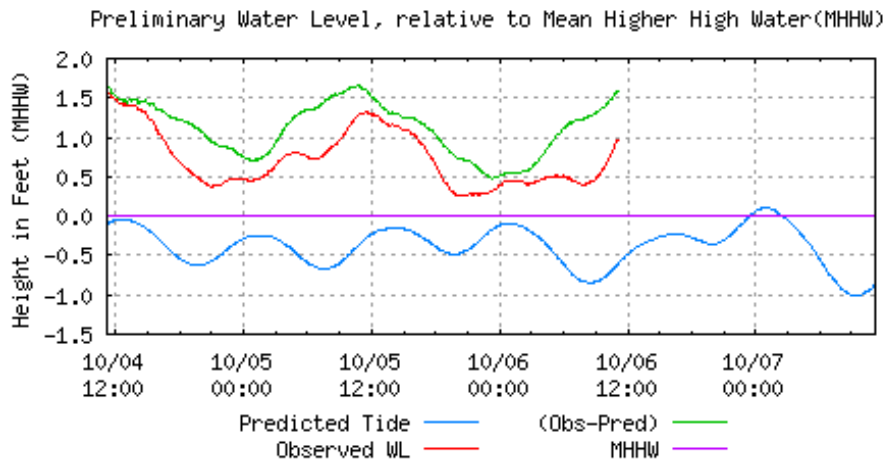
NOAA/NOS/CO-OPS 8760721 Pilottown, LA



Last Observed Sample: 10/06/2017 11:06 (CDT)

Barometric Pressure: 1013.8 mb

NOAA/NOS/CO-OPS 8747437 Bay Waveland Yacht Club, MS



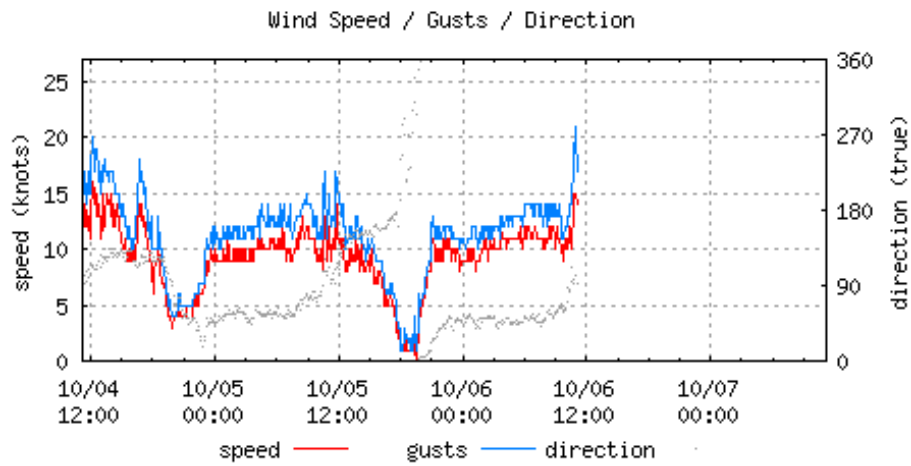
Last Observed Sample: 10/06/2017 11:06 (CDT). Data relative to MHHW

Observed: 0.97 ft. Predicted: -0.61 ft. Residual: 1.58 ft.

Historical Maximum Water Level: Sep 1 2008, 9.10 ft.

Next High Tide: 10/06/2017 16:31 (CDT), -0.23 ft.

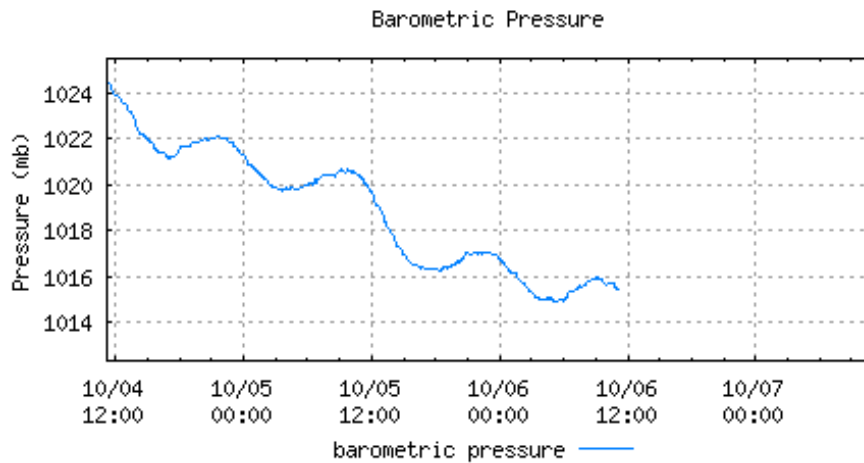
NOAA/NOS/CO-OPS 8747437 Bay Waveland Yacht Club, MS



Last Observed Sample: 10/06/2017 11:06 (CDT)

Wind Speed: 14 knots Gusts: 17 knots Direction: 92° T

NOAA/NOS/CO-OPS 8747437 Bay Waveland Yacht Club, MS

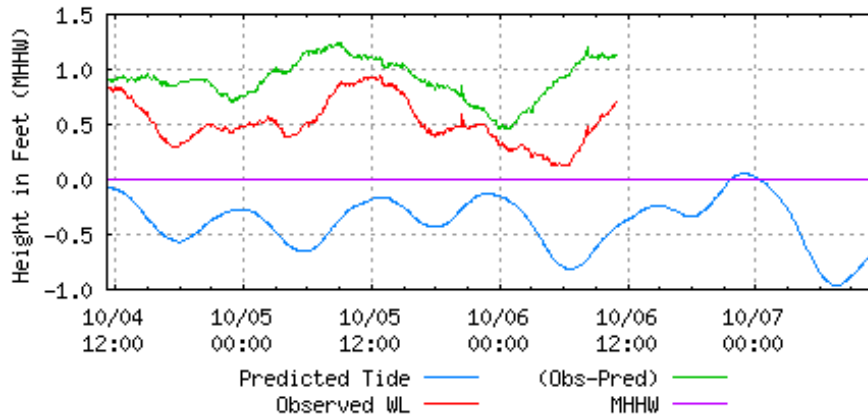


Last Observed Sample: 10/06/2017 11:06 (CDT)

Barometric Pressure: 1015.4 mb

NOAA/NOS/CO-OPS 8741533 Pascagoula NOAA Lab, MS

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/06/2017 11:00 (CDT). Data relative to MHHW

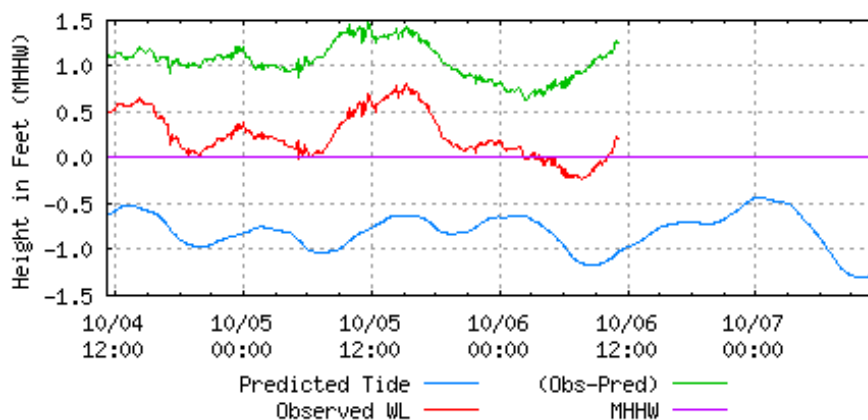
Observed: 0.70 ft. Predicted: -0.43 ft. Residual: 1.13 ft.

Historical Maximum Water Level: Sep 1 2008, 4.90 ft.

Next High Tide: 10/06/2017 14:50 (CDT), -0.24 ft.

NOAA/NOS/CO-OPS 8736897 Coast Guard Sector Mobile, AL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



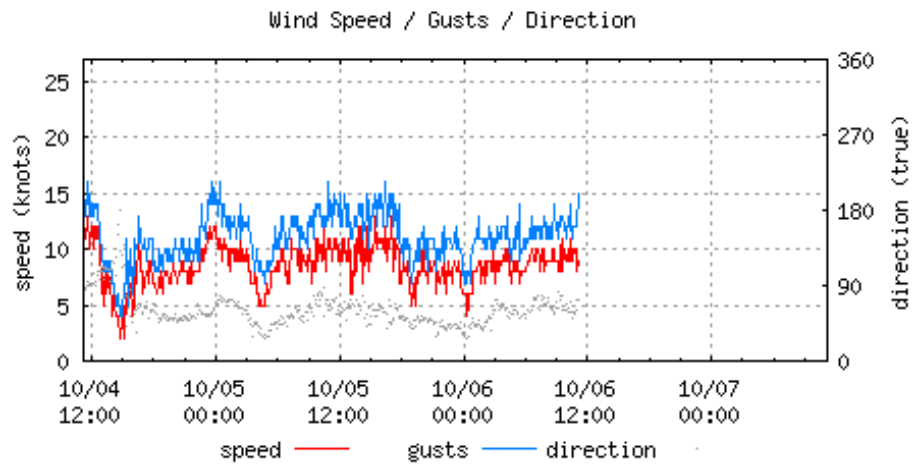
Last Observed Sample: 10/06/2017 11:06 (CDT). Data relative to MHHW

Observed: 0.22 ft. Predicted: -1.03 ft. Residual: 1.25 ft.

Historical Maximum Water Level: Sep 1 2008, 3.80 ft.

Next High Tide: 10/07/2017 00:17 (CDT), -0.43 ft.

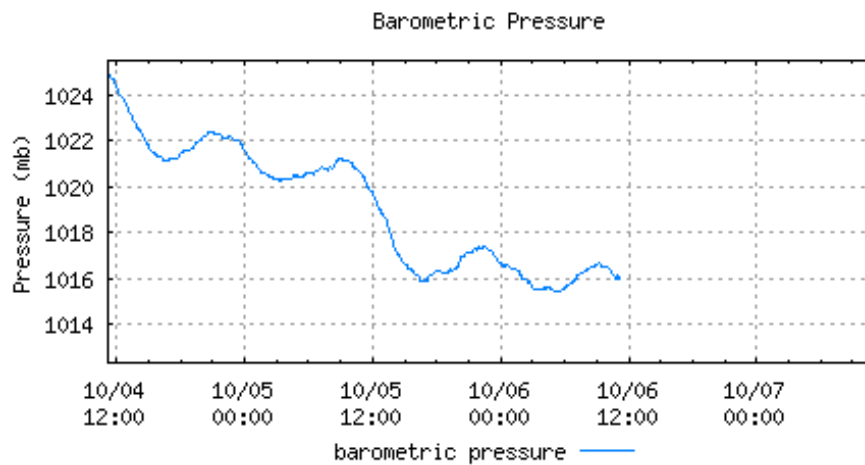
NOAA/NOS/CO-OPS 8736897 Coast Guard Sector Mobile, AL



Last Observed Sample: 10/06/2017 11:06 (CDT)

Wind Speed: 9 knots Gusts: 15 knots Direction: 74° T

NOAA/NOS/CO-OPS 8736897 Coast Guard Sector Mobile, AL

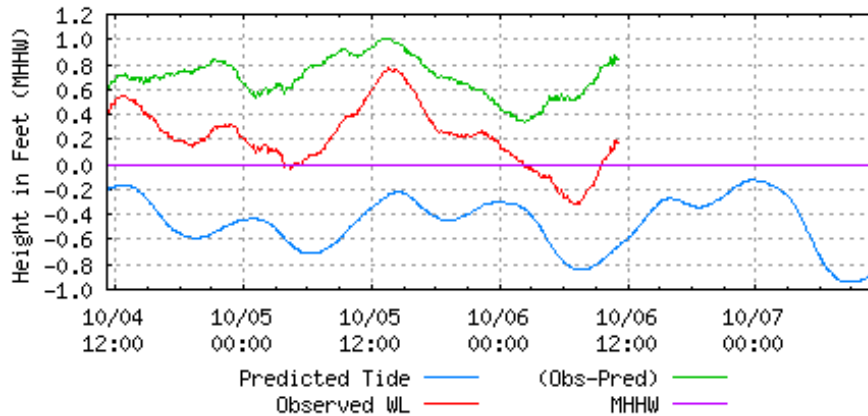


Last Observed Sample: 10/06/2017 11:06 (CDT)

Barometric Pressure: 1016.0 mb

NOAA/NOS/CO-OPS 8732828 Weeks Bay, Mobile Bay, AL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/06/2017 11:06 (CDT). Data relative to MHHW

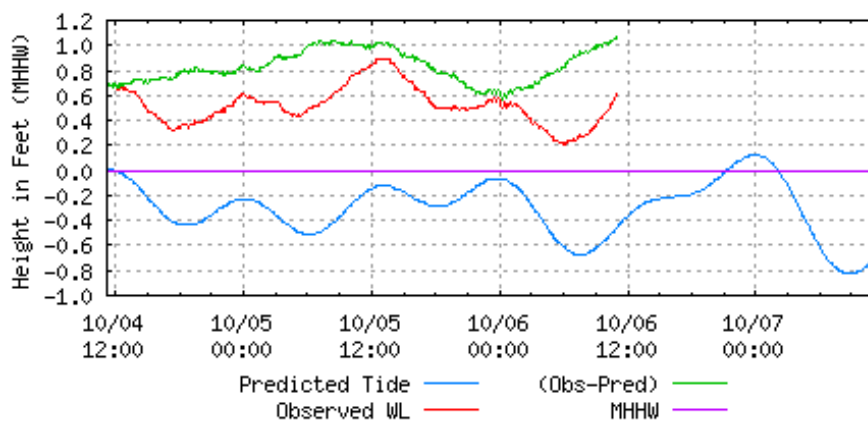
Observed: 0.18 ft. Predicted: -0.66 ft. Residual: 0.84 ft.

Historical Maximum Water Level: Aug 29 2012, 2.85 ft.

Next High Tide: 10/06/2017 15:57 (CDT), -0.28 ft.

NOAA/NOS/CO-OPS 8729840 Pensacola, FL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/06/2017 11:00 (CDT). Data relative to MHHW

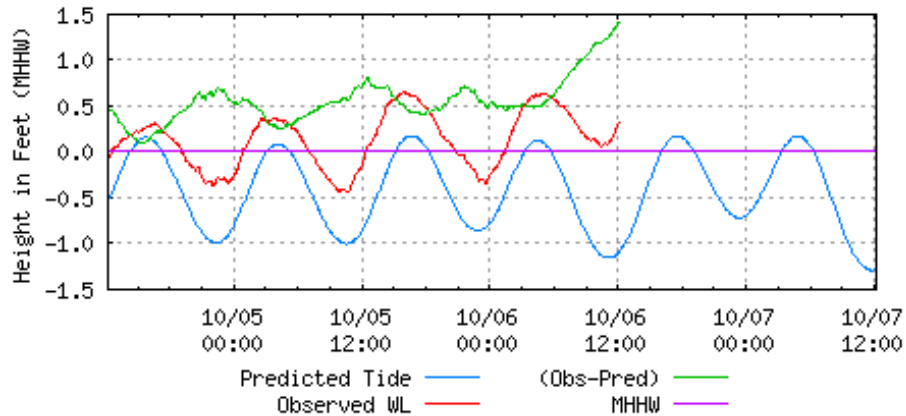
Observed: 0.61 ft. Predicted: -0.46 ft. Residual: 1.07 ft.

Historical Maximum Water Level: Sep 18 1926, 7.41 ft.

Next High Tide: 10/06/2017 23:55 (CDT), 0.12 ft.

NOAA/NOS/CO-OPS 8728690 Apalachicola, FL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/06/2017 12:12 (EDT). Data relative to MHHW

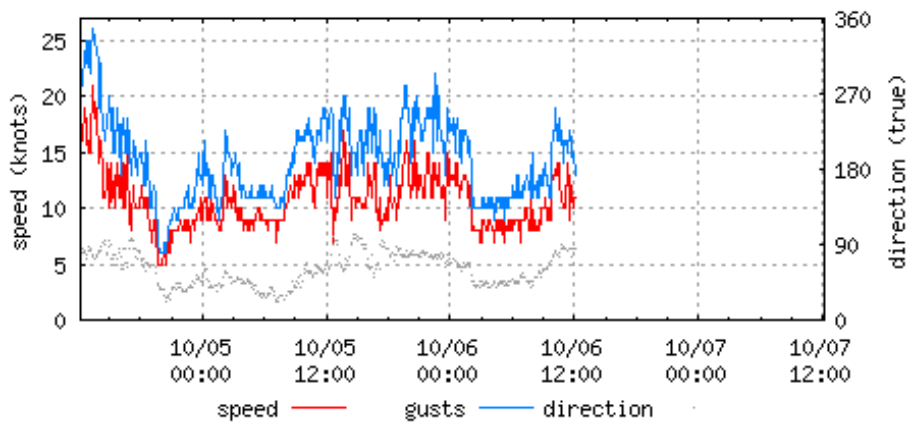
Observed: 0.36 ft. Predicted: -1.08 ft. Residual: 1.44 ft.

Historical Maximum Water Level: Jul 10 2005, 6.43 ft.

Next High Tide: 10/06/2017 17:33 (EDT), 0.17 ft.

NOAA/NOS/CO-OPS 8728690 Apalachicola, FL

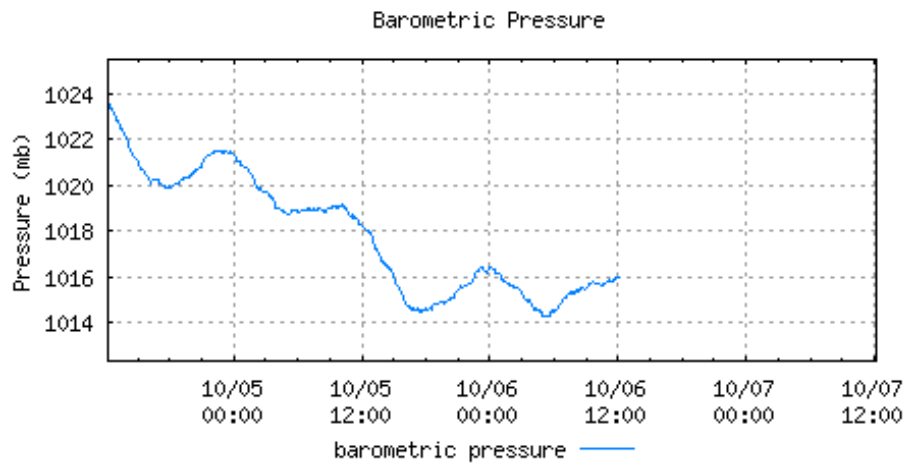
Wind Speed / Gusts / Direction



Last Observed Sample: 10/06/2017 12:12 (EDT)

Wind Speed: 9 knots Gusts: 14 knots Direction: 93° T

NOAA/NOS/CO-OPS 8728690 Apalachicola, FL



Last Observed Sample: 10/06/2017 12:12 (EDT)

Barometric Pressure: 1015.9 mb

Latest Water Level Observations on MHHW

| Station ID | Station Name | Date/Time | Observed Water Level | Predicted Tide | Residual Water Level | 24 Hour Maximum Storm Tide |
|------------|-------------------------------|------------------------|----------------------------|-------------------|----------------------------|-------------------------------------|
| 8764227 | LAWMA, Amerada Pass, LA | 10/06/2017 11:06 (CDT) | -0.50 ft | -1.29 ft | 0.79 ft | 1.35 ft |
| 8761724 | Grand Isle, LA | 10/06/2017 11:06 (CDT) | 0.93 ft | -0.23 ft | 1.16 ft | 1.23 ft |
| 8760721 | Pilottown, LA | 10/06/2017 11:06 (CDT) | 0.80 ft | -0.58 ft | 1.38 ft | 0.98 ft |
| 8747437 | Bay Waveland Yacht Club, MS | 10/06/2017 11:06 (CDT) | 0.97 ft | -0.61 ft | 1.58 ft | 1.32 ft |
| 8741533 | Pascagoula NOAA Lab, MS | 10/06/2017 11:00 (CDT) | 0.70 ft | -0.43 ft | 1.13 ft | 0.94 ft |
| 8736897 | Coast Guard Sector Mobile, AL | 10/06/2017 11:06 (CDT) | 0.22 ft | -1.03 ft | 1.25 ft | 0.81 ft |
| 8732828 | Weeks Bay, Mobile Bay, AL | 10/06/2017 11:12 (CDT) | 0.20 ft | -0.65 ft | 0.85 ft | 0.77 ft |
| 8729840 | Pensacola, FL | 10/06/2017 11:06 (CDT) | 0.61 ft | -0.45 ft | 1.06 ft | 0.89 ft |
| 8728690 | Apalachicola, FL | 10/06/2017 12:12 (EDT) | 0.36 ft | -1.08 ft | 1.44 ft | 0.66 ft |

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce